

SHUMAKER &amp; SIEFFERT, P.A.

## United States Patent Application

## COMBINED DECLARATION AND POWER OF ATTORNEY

As a below named inventor I hereby declare that my residence and post office address are as stated below next to my name, and that I believe I am an original, first and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled: **ANALYSIS OF AUSCULTATORY SOUNDS USING SINGLE VALUE DECOMPOSITION**

The specification of which

- a. ☒ is attached hereto  
 b. ☐ was filed on as application serial no. and was amended on (if applicable) or  
 c. ☐ was (in the case of a PCT-filed application) described and claimed in international no. filed and as amended on (if any), which I have reviewed and for which I solicit a United States patent.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, § 1.56 (attached hereto).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119/365 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on the basis of which priority is claimed:

- a. ☐ no such applications have been filed.  
 b. ☒ such applications have been filed as follows:

| FOREIGN APPLICATION(S), IF ANY, CLAIMING PRIORITY UNDER 35 USC § 119         |                    |                                      |                                     |
|--|--------------------|--------------------------------------|-------------------------------------|
| COUNTRY  | APPLICATION NUMBER | DATE OF FILING<br>(day, month, year) | DATE OF ISSUE<br>(day, month, year) |
|  |                    |                                      |                                     |
|  |                    |                                      |                                     |
| ALL FOREIGN APPLICATION(S), IF ANY, FILED BEFORE THE PRIORITY APPLICATION(S) |                    |                                      |                                     |
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|  |                    |                                      |                                     |
|  |                    |                                      |                                     |

I hereby claim the benefit of any United States and PCT international application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application.

| U.S. APPLICATION NUMBER | DATE OF FILING (day, month, year) | STATUS  |
|-------------------------|-----------------------------------|---------|
| 60/513,444              | 22 October 2003                   | Pending |
|                         |                                   |         |

I hereby appoint Practitioners at Customer Number 28863

**\*28863\***

**28863**

PATENT TRADEMARK OFFICE

|                    |                 |                     |                 |
|--------------------|-----------------|---------------------|-----------------|
| Steven J. Shumaker | Reg. No. 36,275 | Daniel J. Hanson    | Reg. No. 46,757 |
| Kent J. Sieffert   | Reg. No. 41,312 | Kelly P. Fitzgerald | Reg. No. 46,326 |
| Jason D. Kelly     | Reg. No. 54,213 | Kari H. Bartingale  | Reg. No. 35,183 |
| Richard J. Gregson | Reg. No. 41,804 |                     |                 |


as my/our attorney(s) and/or patent agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected herewith.

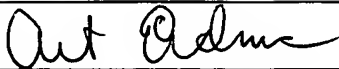
I hereby authorize them to act and rely on instructions from and communicate directly with the person/assignee/attorney/firm/ organization who/which first sends/sent this case to them and by whom/which I hereby declare that I have consented after full disclosure to be represented unless/until I instruct Shumaker & Sieffert, P.A. to the contrary.

Please direct all correspondence in this case to:

SHUMAKER & SIEFFERT, P.A.  
8425 Seasons Parkway, Suite 105  
St. Paul, Minnesota 55125  
Telephone: 651.735.1100  
Facsimile: 651.735.1102

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

|  |  |                                    |   |
|--|--|------------------------------------|---|
| Full Name Of Inventor  | Family Name Guion                                  | First Given Name Marie             | Second Given Name A.                          |
| Residence & Citizenship  | City St. Paul                                      | State or Foreign Country Minnesota |   |
| Post Office Address  | Post Office Address 2645 W. 7 <sup>th</sup> Street | City St. Paul                      | State & Zip Code/Country Minnesota 55116/ USA |
| Signature of Inventor:  |  |                                    | Date: 2/3/04                                  |

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| Signature of Inventor:  |  |                                    | Date: 2/10/04                                 |

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| Signature of Inventor:  |   |                                    | Date:   |

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| Post Office Address                        | Post Office Address 7313 Oaklawn Ave. | City Edina                         | State & Zip Code/Country Minnesota 55435/ USA |
| Signature of Inventor: <i>Ahmed Tewfik</i> |                                       |                                    | Date: <i>Jan 20, 2004</i>                     |

|                         |   |                                    |   |
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| Full Name Of Inventor   | Family Name Oster                           | First Given Name Craig             | Second Given Name D.                          |
| Residence & Citizenship | City Oakdale                                | State or Foreign Country Minnesota |   |
| Post Office Address     | Post Office Address 2241 Hynes Avenue North | City Oakdale                       | State & Zip Code/Country Minnesota 55128/ USA |
| Signature of Inventor:  |   |                                    | Date:   |

**§ 1.56 Duty to disclose information material to patentability.**

(a) A patent by its very nature is affected with a public interest. The public interest is best served, and the most effective patent examination occurs when, at the time an application is being examined, the Office is aware of and evaluates the teachings of all information material to patentability. Each individual associated with the filing and prosecution of a patent application has a duty of candor and good faith in dealing with the Office, which includes a duty to disclose to the Office all information known to that individual to be material to patentability as defined in this section. The duty to disclose information exists with respect to each pending claim until the claim is canceled or withdrawn from consideration, or the application becomes abandoned. Information material to the patentability of a claim that is canceled or withdrawn from consideration need not be submitted if the information is not material to the patentability of any claim remaining under consideration in the application. There is no duty to submit information which is not material to the patentability of any existing claim. The duty to disclose all information known to be material to patentability is deemed to be satisfied if all information known to be material to patentability of any claim issued in a patent was cited by the Office or submitted to the Office in the manner prescribed by §§ 1.97(b)-(d) and 1.98. However, no patent will be granted on an application in connection with which fraud on the Office was practiced or attempted or the duty of disclosure was violated through bad faith or intentional misconduct. The Office encourages applicants to carefully examine:

(1) prior art cited in search reports of a foreign patent office in a counterpart application, and

(2) the closest information over which individuals associated with the filing or prosecution of a patent application believe any pending claim patentably defines, to make sure that any material information contained therein is disclosed to the Office.

(b) Under this section, information is material to patentability when it is not cumulative to information already of record or being made of record in the application, and

(1) It establishes, by itself or in combination with other information, a prima facie case of unpatentability of a claim;

or

(2) It refutes, or is inconsistent with, a position the applicant takes in:

(i) Opposing an argument of unpatentability relied on by the Office, or

(ii) Asserting an argument of patentability.

A prima facie case of unpatentability is established when the information compels a conclusion that a claim is unpatentable under the preponderance of evidence, burden-of-proof standard, giving each term in the claim its broadest reasonable construction consistent with the specification, and before any consideration is given to evidence which may be submitted in an attempt to establish a contrary conclusion of patentability.

(c) Individuals associated with the filing or prosecution of a patent application within the meaning of this section are:

(1) Each inventor named in the application:

(2) Each attorney or agent who prepares or prosecutes the application; and

(3) Every other person who is substantively involved in the preparation or prosecution of the application and who is associated with the inventor, with the assignee or with anyone to whom there is an obligation to assign the application.

(d) Individuals other than the attorney, agent or inventor may comply with this section by disclosing information to the attorney, agent, or inventor.

SHUMAKER &amp; SIEFFERT, P.A.

## United States Patent Application

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| Richard J. Gregson | Reg. No. 41,804 |                     |                 |

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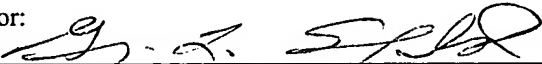
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|                        |                         |   |                                       |  |
|------------------------|-------------------------|---|---------------------------------------|--|
|                        | Full Name Of Inventor   | Family Name<br>Guion                                  | First Given Name<br>Marie             | Second Given Name<br>A.                          |
|                        | Residence & Citizenship | City<br>St. Paul                                      | State or Foreign Country<br>Minnesota |  |
|                        | Post Office Address     | Post Office Address<br>2645 W. 7 <sup>th</sup> Street | City<br>St. Paul                      | State & Zip Code/Country<br>Minnesota 55116/ USA |
| Signature of Inventor: |                         |   | Date:                                 |  |

|                        |                         |   |                                       |  |
|------------------------|-------------------------|---|---------------------------------------|--|
|                        | Full Name Of Inventor   | Family Name<br>Erdman                                 | First Given Name<br>Arthur            | Second Given Name<br>G.                          |
|                        | Residence & Citizenship | City<br>New Brighton                                  | State or Foreign Country<br>Minnesota |  |
|                        | Post Office Address     | Post Office Address<br>1957 3 <sup>rd</sup> Street SW | City<br>New Brighton                  | State & Zip Code/Country<br>Minnesota 55112/ USA |
| Signature of Inventor: |                         |   | Date:                                 |  |

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| Full Name Of Inventor  | Family Name<br>Sommerfeld                  | First Given Name<br>George            | Second Given Name                                |
| Residence & Citizenship  | City<br>Brainerd                           | State or Foreign Country<br>Minnesota |  |
| Post Office Address  | Post Office Address<br>19969 See Gull Road | City<br>Brainerd                      | State & Zip Code/Country<br>Minnesota 56401/ USA |
| Signature of Inventor:  |  |                                       | Date:<br>12/12/23                                |

|                         |  |                                       |  |
|-------------------------|--|---------------------------------------|--|
| Full Name Of Inventor   | Family Name<br>Tewfik                    | First Given Name<br>Ahmed             | Second Given Name<br>H.                          |
| Residence & Citizenship | City<br>Edina                            | State or Foreign Country<br>Minnesota |  |
| Post Office Address     | Post Office Address<br>7313 Oaklawn Ave. | City<br>Edina                         | State & Zip Code/Country<br>Minnesota 55435/ USA |
| Signature of Inventor:  |  |                                       | Date:  |

|  |  |                                       |  |
|--|--|---------------------------------------|--|
| Full Name Of Inventor  | Family Name<br>Oster                           | First Given Name<br>Craig             | Second Given Name<br>D.                          |
| Residence & Citizenship  | City<br>Oakdale                                | State or Foreign Country<br>Minnesota |  |
| Post Office Address  | Post Office Address<br>2241 Hynes Avenue North | City<br>Oakdale                       | State & Zip Code/Country<br>Minnesota 55128/ USA |
| Signature of Inventor:  |  |                                       | Date:<br>12/1/23                                 |

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